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# Recombinant human Peroxiredoxin 1/PRDX1 protein

Catalog Number: PRX0801

## PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-199aa

#### **UniProt No.**

006830

#### **NCBI Accession No.**

NP 002565.1

## **Alternative Names**

Natural killer cell-enhancing factor A, NKEF-A, Proliferation-associated gene protein, PAG, Thioredoxin peroxidase 2, Thioredoxin-dependent peroxide reductase 2, Thioredoxide reductase 2, Thioredoxi

## PRODUCT SPECIFICATION

# **Molecular Weight**

24 kDa (219aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 20% glycerol

#### **Purity**

> 90% by SDS-PAGE

## **Biological Activity**

Specific activity is >2,000pmol/min/ug. Enzymatic activity is defined as the amount of hydroperoxide that 1ug of enzyme can reduce at 25C for minute.

## Tag

His-Tag

## **Application**

SDS-PAGE, Enzyme Activity

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

PRDX1 is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. This protein is also known to be important to protect red blood cells against reactive



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oxygen species and in tumor prevention. Recombinant human PRDX1, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography techniques.

## **Amino acid Sequence**

<MGSSHHHHHH SSGLVPRGSH> MSSGNAKIGH PAPNFKATAV MPDGQFKDIS LSDYKGKYVV FFFYPLDFTF VCPTEIIAFS DRAEEFKKLN CQVIGASVDS HFCHLAWVNT PKKQGGLGPM NIPLVSDPKR TIAQDYGVLK ADEGISFRGL FIIDDKGILR QITVNDLPVG RSVDETLRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVQK SKEYFSKQK

### **General References**

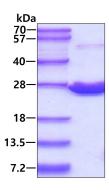
Iraqui I., et al. (2008) Cancer Res. 68(4):1055-63.

Parmigiani RB., et al. (2008) Proc Natl Acad Sci u S A. 105(28):9633-8.

Kim JH., et al. (2008) Clin Cancer Res. 14(8):2326-33.

## **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

